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File SCP Carlstadt

Comments.

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TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-6669

TAT-02-F-01951

MEMORANDUM

TO: Robert Harris / *Chris Militzer*
Response and Prevention Branch, U.S. EPA

FROM: Gerald Zambrella *GZ*
TAT/II

SUBJECT: SCP Carlstadt Sample Collection and Analytical Results

DATE: March 10, 1986

On February 5, 1986, representatives from the U.S. EPA, the U.S. EPA Technical Assistance Team (TAT) and the NJDEP monitored the collection of samples from four above-ground tanks and one tanker trailer at the SCP site in Carlstadt, New Jersey. The entire batch of samples was collected by a two member crew from Inland Pollution Company (IPCO), under the supervision of a representative from INMAR (the responsible party for the SCP Carlstadt site). IPCO collected all samples via a "bomb" sampling device. The samples were split upon collection as the EPA samples were to be analyzed by the Weston Laboratory in Lionville, Pa. and the INMAR samples were to be sent to Townley Research in North Plainfield, N.J. Both contracted laboratories were to analyze the samples for priority pollutant PCB's. A sample was not able to be collected from Tank T-5, as the solid nature of this tanks contents prevented its collection by the "bomb" sampler. The four remaining above-ground tanks and the one tanker trailer located at the site were all sampled. The results of the PCB analyses, as determined by Weston Laboratory, are attached. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analysis was performed on the organic phase sample collected from the above-ground tank identified as T-56. The Weston Laboratory analyzed all samples for PCB content per the U.S. EPA Contract Laboratory Program (CLP) protocol.



The analytical results revealed the presence of Aroclor 1260 in three of the four tanks sampled at the SCP site. Aroclor 1260 was present in levels ranging from 3.7 mg/l, found in the aqueous phase of Tank T-15, to a high of 80 mg/l identified in the aqueous phase of Tanker/Trailer T-56. Tank T-4 was the only sample in which Aroclor 1260 was missing. Besides Aroclor 1260, the only other PCB to be found in the samples was Aroclor 1248. This PCB was identified in two of the four tanks sampled. Aroclor 1248 values ranged from 5.3 mg/l, which was found in the aqueous phase of Tank T-15, to a high of 320 mg/l identified in Tank T-4. The 320 mg/l of Aroclor 1248, in Tank T-4, represented the highest level of PCB content found in any of the SCP samples.

The results of these PCB analyses will help determine the method of treatment/disposal to be utilized on the contents of the SCP tanks. As a point of reference, the U.S. EPA has suggested the following course of action regarding disposal of the various tank contents:

- ° A tank's liquid (flowable) contents will be incinerated regardless of PCB level.....as if the PCB level is greater than 500 ppm.
- ° The non-flowable solids/sludge at the tank bottoms will be incinerated if the maximum concentration found in the flowable phase of the same tank is greater than 500 ppm.
- ° Should the maximum concentration of the flowable phases in an individual tank be less than 500 ppm PCB, then the solids remaining after the flowable phases are removed can be separately analyzed for PCB content. If these solids are less than 500 ppm PCB, they may be landfilled rather than incinerated.

DATE OF REPORT: February 21, 1986

EPA REGION II
PCB'S SUMMARY REPORT

R.F.W. NO.: 8602-	Method	557-0010	557-0020	557-0030	557-0040	557-0050	557-0060
SAMPLE DESCRIPTION:	Detection Limits	T-15 ^{Aqueous}	T-15 ^{Organic}	T-4	T-56 ^{Aqueous}	T-56 ^{Organic}	T-8
DATE COLLECTED:		2-05-86	2-05-86	2-05-86	2-05-86	2-05-86	2-05-86
DATE EXTRACTED:		2-10-86	2-10-86	2-10-86	2-10-86	2-10-86	2-10-86
DATE ANALYZED:		2-14-86	2-14-86	2-14-86	2-14-86	2-14-86	2-14-86
PARAMETER,	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AROCLOR 1016	5	ND<2.5	ND<40	ND<2.0	ND<25	ND<.5	ND<.5
AROCLOR 1221	↓	↓	↓	↓	↓	↓	↓
AROCLOR 1232	↓	↓	↓	↓	↓	↓	↓
AROCLOR 1242	↓	↓	↓	↓	↓	↓	↓
AROCLOR 1248	↓	5.3	↓	320	↓	↓	↓
AROCLOR 1254	10	ND<2.5	↓	ND<2.0	↓	↓	↓
AROCLOR 1260	10	3.7	71	↓	80	6.0	16
DIBUTYLCHLORENDATE	---	Diluted out	Diluted out	Diluted out	Diluted out	Diluted out	Diluted out
DILUTION FACTOR	---	500	8000	200	5000	100	100

ND< = NOT DETECTED LESS THAN

Detection limit for each sample is obtained from:
dilution factor x method detection limit

Approved By: Earl M. Hansen
Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories

EPA Region II
PCB'S SUMMARY REPORT

R.F.W. NO.:	Method	557-0050	557-0050	Blank			
SAMPLE DESCRIPTION:	Detection Limits	T-560 MS	T-560 MSD	---			
DATE COLLECTED:		2-05-86	2-05-86	---			
DATE EXTRACTED:		2-10-86	2-10-86	2-10-86			
DATE ANALYZED:		2-14-86	2-14-86	2-14-86			
PARAMETER,	ug/L	mg/L	mg/L	mg/L			
AROCLOR 1016	5	ND<.5	ND<.5	ND			
AROCLOR 1221							
AROCLOR 1232							
AROCLOR 1242							
AROCLOR 1248							
AROCLOR 1254	10						
AROCLOR 1260	10	3.2*	4.5*				
DIBUTYLCHLORENDATE RECOVERY	---	Diluted out	Diluted out	34%			
DILUTION FACTOR	---	100	100	1			

*Matrix spikes were 5 ug/L of Aroclor 1260

ND = NOT DETECTED
ND<= NOT DETECTED LESS THAN

Detection limit for each sample is obtained from:
dilution factor x method detection limit

Approved By: Earl M. Hansen
For Earl M. Hansen, Ph.D.
Manager
WESTON Analytical Laboratories